





2016 Colorado Waste Tire Market Development Conference

Presentation by Eric Davis, CEO/Founder

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Journey to tire derived products

- Colorado tire situation news monofills
- 60+ million tires in waste facilities in Colorado
- 6,000,000 waste tires generated annually
- CO laws requires repurposing of waste tires by 2024
- Environmental impacts how to make a difference
- CDPHE, State, Corporations looking for solutions



Solutions and Product Requirements

- Founded TIRVA to implement tire solutions
- Focused on methods to utilize tires as a "raw good"
- What can we make/build?
- Requirement: High-Volume and High-Value products
- Superior performance to competition
- Economic viability



Customers and Products

- Customers and products are key to viability!
 - Who are our customers?
 - What products do they buy?
 - Why do they buy?
 - When do they buy?
 - How do they purchase?
- What products offer the most value?



Product Research and Business Case

- Targeted largest potential customers/buyers
 - States, cities, federal agencies, major corporations, etc.
- Approached each customer with product lists,
 benefits, possible pricing (CDOT, RTD, DIA, Cities, etc.)
- Narrowed product research Meet customer needs!
- Evaluated mfg. costs, equipment, delivery, etc.
- Destination Strong product(s) & business case



Final Products: Barriers and Blocks

- TIRVA products: Large-scale barriers and blocks
- Utilizes equivalent 50-70 tires per product
- Strong alternative to Concrete & Plastic
- Superior Benefits
- Multiple applications
 - Parking lots, rock fall, beaches, shoreline, special events,
 perimeter control, roadway, containment, military, etc.

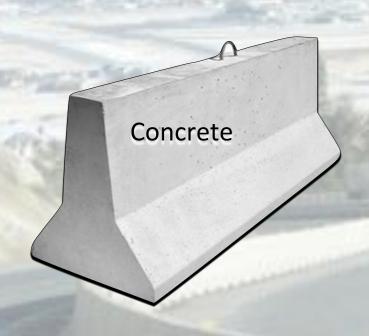




(Patent Pending)



U.S. Market Pre-Cast Concrete Barriers / Blocks





- Chips/cracks easily
- Rising material costs
- Global, massive CO2 footprint

- Superior performance benefits
- Competitive pricing
- Green ~ 90% less CO2 footprint

TIRVA "T" Barriers vs. Concrete "C"



PRACTICAL

REDUCE: Maintenance, logistical, transportation problems

SIMPLE: Efficient manufacturing with indefinite tire supply

LONGEVITY: Extreme durability (no chips, cracks)

IMPACT: Superior energy dispersion with rubber

SAFETY: Rubber, soft, rounded corners

CUSTOM: Weight, shape, size

ECONOMICAL

Competitive alternative with low cost tire supply

O&M savings (Reduced life-cycle costs)

Government offsets

ENVIRONMENTAL

Large scale and continuous solution (75-125 tires per barrier)

Reduces chemical and biological damage

Green product with manufacturing advantages

100% recycled tire product utilization

POLITICAL

Better carbon footprint

Repurposes largest waste tire dump site in US (in CO)

Substantive win for state leaders, legislators & agencies

TIRE VENTURE ARCHITECTS

X

X

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X

X

X

X

X

X

X

X

X

X

X

X



REDUCE





CDPHE and Market Development

- Worked with CDPHE directly for multiple years
- CDPHE support was key (programs, contacts, etc.)
- Market Development Funds were/are critical
 - Assist with new products, markets, opportunities
- RREO Grant award \$650,000
- Thank you for support!





Thank You!

Questions?

Website: www.tirva.co

.CO = Colorado Company